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carelessness engendered by delayed casualty, suddenly become the scenes of disaster and great loss of life. M. Le Chatelier has brought together a great mass of facts from many sources and has so presented them as to place them conveniently within reach of all workers in the field. Part I. treats of the nature and production of fire damp, its composition, manner of explosion, its limit of inflammability, and other properties, physical and chemical. Part II. is highly practical and is devoted to the consideration of the immediate cause of accidents, with precautions against the same, the use of safety lamps and of safety explosives, etc. To those desiring a more extended treatment of any of these subjects, or those wishing to consult original papers, the very complete Bibliography which is given at the end of the work will be of great service, particularly as a guide to continental publications.

CHARLES PLATT.

PHILADELPHIA.

At the North of Bearcamp Water.—Chronicles of a Stroller in New England from July to December.—By FRANK BOLLES.—Houghton, Mifflin & Co., 16 mo. pp. 297.

Any one who will go afield in the rain for the purpose of seeing how the wet birch trees look, or who will stay through a stormy night on a mountain top for the sake of the scenery, has certainly a lively interest in nature. The late Frank Bolles had all of this interest and in addition a kindly sympathy with every wandering creature. In his last book, *At the North of Bearcamp Water*, one does not find as many paragraphs suitable for quotations on a daily calendar as would occur in a volume of Thoreau, but his description of a July afternoon when "The air was full of quivering heat and hazy midsummer softness," has all the strength of beauty and truth.

The book particularly describes nature in the vicinity of Chocorua mountain, but there are also chapters on Old Shag, Bear

and other White Mountain peaks. In these accounts of scenery of deer, foxes, birds and trees there is an evident truthfulness, as real as the objects themselves. The mass of detail brought into some of these chapters is surprising, and a frog did not jump across the path without being made to play his part in the account of the day's ramble.

Among the most interesting pages are those devoted to 'A Lonely Link,' and to 'A Night Alone on Chocorua.' Mr. Bolles had his red roofed cottage by the lake and describes the squirrels, muskrats, porcupines, and many birds that were his neighbors. The narrative is peaceful in tone, as restful as a quiet ramble in the woods, and those who wish to be transported in spirit to pleasing natural scenes will do well to accept Mr. Bolles as guide.

W. T. DAVIS.

NOTES.

THE BOTANICAL SOCIETY OF AMERICA.

The Botanical Society of America was organized during the meeting of the American Association for the Advancement of Science at Brooklyn, N. Y., in August, 1894. The following extracts from the Constitution adopted are of general interest.

"There may be two classes of members—active and honorary. Only American botanists engaged in research, who have published work of recognized merit, shall be eligible to active membership. Before the 1st of January following his election, each active member shall pay into the treasury of the Society a fee of twenty-five dollars (\$25), and thereafter annual dues to the amount of ten dollars (\$10), payable before the 1st of January."

"Candidates for active membership shall be recommended by three active members of the Society not members of the Council, who shall certify that the candidate is eligible under the provisions of the Constitution. These nominations shall be placed in

the hands of the Secretary at least three months before the meeting of the Society which is to act on them. Two months before said meeting, the Secretary shall cause to be prepared and sent to each active member of the Society a list of the nominees, indicating the residence, occupation and qualifications of each and the names of those recommending him."

"The officers of this Society shall be a President, Vice-President, Secretary and Treasurer. Their duties shall be those usually performed by such officers in other bodies, and such additional duties as may be prescribed by the Constitution of this Society. They shall hold office through the annual meeting following the year of election, and until their successors have been elected and qualified. An address shall be delivered by the President at the annual meeting two years after his election."

"The officers, together with the last Past-President and two members elected by the Society at its annual meeting, shall constitute a Council, which shall be charged with such duties as are prescribed by the Society, and shall represent the Society in the interval between meetings of the latter, reporting any *ad interim* action at the next general meeting of the Society; but acts of the Council not specified in the Constitution, or for which special power has not been conferred by the Society, shall be binding on the latter only after they have been reported and approved at such general meeting. The Council shall constitute a Publication Committee, charged with editing, publishing and distributing such publications as may be authorized by the Society, and they shall have the power to select from their own number or the membership of the Society an editor to whom they may delegate the immediate duty of editing such publications. They shall all constitute a Board of Curators for the property of the Society, subject to

such rules as are provided in the Constitution or otherwise prescribed by the Society."

"The Society shall hold an annual meeting at such time and place as the Council each year may select; and special meetings for the presentation of papers or the transaction of business, at such other times and places as the Society or Council may from time to time deem necessary."

The officers for the present year are: Prof. Wm. Trelease, Missouri Botanical Garden, President; Prof. N. L. Britton, Columbia College, New York City, Vice-President; Prof. C. R. Barnes, University of Wisconsin, Madison, Wis., Secretary.

PSYCHOLOGY.

The department of Philosophy and Psychology at Chicago has been made this year one of the strongest in America. Professor Dewey, formerly of the University of Michigan, has accepted a call to the Head Professorship of Philosophy; Mr. G. H. Mead, also of the University of Michigan, has been made assistant Professor of Philosophy; Mr. J. R. Angell, formerly of the University of Minnesota, has been made assistant Professor of Psychology, and Mr. S. F. McLennan has been made assistant in Psychology.

ARTICLES ON SCIENCE.

Among the articles of scientific interest in the popular magazines are the following:

A New Flying Machine, Abram S. Maxim (*Jan. Century*); Want of Economy in the Lecture System, John Trowbridge; The Genius of France, Havelock Ellis; Gallia Rediviva, Adolphe Cohn (*Jan. Atlantic Monthly*); The World's Debt to Astronomy, Simon Newcomb (*Dec. Chautauquan*); The World's Debt to Chemistry, H. B. Cornwall (*Jan. Chautauquan*); Mental Characteristics of the Japanese, George Trumbull Ladd (*Jan. Scribner's*); Heredity, Part III., St. George Mivart (*Jan. Humanita-*

rian); Recent Science, Prince Krapotkin (*Dec. Nineteenth Century*).

Nature has reprinted (Dec. 13 and 20) in full the interesting address on *Endowment for Scientific Research and Publication* given by Mr. Addison Brown before the Scientific Alliance of New York, and published in the Report of the Smithsonian Institution for 1892.

Mr. Kumagusu Minakata has written, in view of the claims of priority recently made by two English writers, a letter to *Nature* (December 27), calling attention to the use of 'finger-prints' as a means of signing documents and identification in the laws and usage of China and Japan as early as 650 A. D.

The *Naturwissenschaftliche Rundschau* is publishing in its current numbers an account of the sixty-sixth *Versammlung der Gesellschaft deutscher Naturforscher und Aerzte*, held last year in Vienna.

FORTHCOMING PUBLICATIONS.

Following the publication of H. M. Ward's translation of Hartig's *Text-book of the Diseases of Trees*, the same publishers (Messrs. Macmillan & Co.) announce as nearly ready three other important translations: Rätzels *Völkerkunde*, translated by A. J. Butler; the article *Construction* from Viollet le Duc's *Dictionnaire raisonné de l'architecture française*, translated by G. M. Duss, and Paulsen's *Universities of Germany*, translated by E. D. Perry, of Columbia College.

There will be issued this month as a supplement to *The Psychological Review* a *Bibliography of Psychological Literature for 1894*, compiled by Dr. Livingston Farrand, of Columbia College, and Mr. Howard C. Warren, of Princeton College. The bibliography will include so far as possible all books, monographs and articles in Psychology, and those publications in philosophy, biology, anthropology, neurology

etc., which are important for psychology.

AN *Année Psychologique*, edited by Professor Alfred Binet, will be issued in March.

MESSRS. MACMILLAN & Co., announce for early publication *A Rural Science Series*, edited by Professor L. H. Bailey, of Cornell University.

SCIENTIFIC JOURNALS.

THE BOTANICAL GAZETTE, DEC.

Contribution to the comparative histology of pulvini and the resulting photoelectric movements. (With plate XXXIV.) F. D. HEALD.

Two new ferns from New England: GEORGE E. DAVENPORT.

Some notes on the Leguminosae of Siam: GLENN CULBERTSON.

Briefer Articles; Editorial; Current Literature; Notes and News; General Index.

THE PSYCHOLOGICAL REVIEW, JAN.

Hermann von Helmholtz and the New Psychology: C. STUMPF.

The Theory of Emotion (II.); The Significance of Emotions: JOHN DEWEY.

The Muscular Sense and its Localization in the Brain Cortex: M. ALLEN STARR.

A Location Reaction Apparatus: G. W. FITZ. *Discussion:*—PAUL SHOREY; H. M. STANLEY; H. R. MARSHALL; E. B. TITCHENER.

Psychological Literature; Notes.

THE ENGINEERING MAGAZINE, JAN.

Silver Coinage Historically Considered: H. D. MCLEOD.

Modern Theories as to Electricity: HENRY A. ROWLAND.

The Drainage System of the Valley of Mexico: HON. M. ROMERO.

Practical Hints for City Officials: E. C. GARDNER, LEWIS M. HAUPT.

Selecting Motive Power for a New Plant: CHARLES E. EMERY.

Plumbing Trade Schools and Their Influence: E. N. G. LEBOS.